



OIPF

# 2.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/034,974

DATE: 01/17/2002  
TIME: 15:52:47

Input Set : A:\DYX-024.1.ST25.txt  
Output Set: N:\CRF3\01172002\J034974.raw

P.7

816

3 <110> APPLICANT: DYAX CORP.  
4 Beltzer, James P.  
5 Wescott, Charles R.  
6 Sato, Aaron K.  
8 <120> TITLE OF INVENTION: FIBRIN BINDING MOIETIES USEFUL AS IMAGING AGENTS  
10 <130> FILE REFERENCE: DYX-024.1 PCT; DYX-024.1 US  
12 <140> CURRENT APPLICATION NUMBER: US/10/034,974  
12 <141> CURRENT FILING DATE: 2001-12-21  
12 <150> PRIOR APPLICATION NUMBER: US 09/747,403  
13 <151> PRIOR FILING DATE: 2000-12-23  
15 <160> NUMBER OF SEQ ID NOS: 56  
17 <170> SOFTWARE: PatentIn version 3.1  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 15  
21 <212> TYPE: PRT  
22 <213> ORGANISM: Artificial Sequence  
24 <220> FEATURE:  
25 <223> OTHER INFORMATION: fibrin binding polypeptides  
27 <220> FEATURE:  
28 <221> NAME/KEY: MISC\_FEATURE  
29 <222> LOCATION: (1)..(1)  
30 <223> OTHER INFORMATION: X1 is Cys, Pro, or Trp  
33 <220> FEATURE:  
34 <221> NAME/KEY: MISC\_FEATURE  
35 <222> LOCATION: (2)..(2)  
36 <223> OTHER INFORMATION: X2 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys,  
Met,  
37 Phe, Pro, Ser, Thr, Trp, Tyr or Val, or if X4 and X12 are not Cy  
38 s, then X2 may be Cys  
41 <220> FEATURE:  
42 <221> NAME/KEY: MISC\_FEATURE  
43 <222> LOCATION: (3)..(3)  
44 <223> OTHER INFORMATION: X3 is Ala, Asn, Gln, Gly, Ile, Leu, Met, Phe, Pro, or Thr  
47 <220> FEATURE:  
48 <221> NAME/KEY: MISC\_FEATURE  
49 <222> LOCATION: (4)..(4)  
50 <223> OTHER INFORMATION: X4 is Cys or another amino acid capable of forming a covalent  
cro  
51 ss-link to X12  
54 <220> FEATURE:  
55 <221> NAME/KEY: MISC\_FEATURE  
56 <222> LOCATION: (5)..(5)  
57 <223> OTHER INFORMATION: X5 is Pro, Arg, Asn, Asp, Gln, Gly, Phe, Ser, Thr or Tyr  
60 <220> FEATURE:

ENTERED

61 <221> NAME/KEY: MISC\_FEATURE

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Input Set : A:\DYX-024.1.ST25.txt

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62 <222> LOCATION: (6)..(6)

63 <223> OTHER INFORMATION: X6 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro, Ser,

64 Thr, Trp, Tyr, or Val

67 <220> FEATURE:

68 <221> NAME/KEY: MISC\_FEATURE

69 <222> LOCATION: (7)..(7)

70 <223> OTHER INFORMATION: X7 is Glu, Gly, Lys, Ser, or Tyr

73 <220> FEATURE:

74 <221> NAME/KEY: MISC\_FEATURE

75 <222> LOCATION: (8)..(8)

76 <223> OTHER INFORMATION: X8 is Pro, Asp, Glu, Asn, Gln, Glu, Gly, Leu, Lys, Ser, Thr, or T

77 yr

80 <220> FEATURE:

81 <221> NAME/KEY: MISC\_FEATURE

82 <222> LOCATION: (9)..(9)

83 <223> OTHER INFORMATION: X9 is Arg, Gly, or Trp

86 <220> FEATURE:

87 <221> NAME/KEY: MISC\_FEATURE

88 <222> LOCATION: (10)..(10)

89 <223> OTHER INFORMATION: X10 is Leu, Ile, Lys, Met, Asn, Gln, Pro, Ser, Thr, or Val

92 <220> FEATURE:

93 <221> NAME/KEY: MISC\_FEATURE

94 <222> LOCATION: (11)..(11)

95 <223> OTHER INFORMATION: X11 is Ile, Leu, Phe, Trp, or Tyr

98 <220> FEATURE:

99 <221> NAME/KEY: MISC\_FEATURE

100 <222> LOCATION: (12)..(12)

101 <223> OTHER INFORMATION: X12 is Cys or another amino acid capable of forming a covalent cr

102 oss-link to X4

105 <220> FEATURE:

106 <221> NAME/KEY: MISC\_FEATURE

107 <222> LOCATION: (13)..(13)

108 <223> OTHER INFORMATION: X13 is Cys, Gly, Leu, Phe, Pro, Trp, or Tyr

111 <220> FEATURE:

112 <221> NAME/KEY: MISC\_FEATURE

113 <222> LOCATION: (14)..(14)

114 <223> OTHER INFORMATION: X14 is Pro, Ala, Gly, Asn, Gln, Lys, Ser, Thr, Tyr, Asp, Glu, or

115 His

118 <220> FEATURE:

119 <221> NAME/KEY: MISC\_FEATURE

120 <222> LOCATION: (15)..(15)

121 <223> OTHER INFORMATION: X15 is Ala, Arg, Asp, Ile, Leu, Met, Phe, Pro, Trp, Val, Asn, Gln

122 , Gly, Ser, Thr, Tyr, or His

125 <400> SEQUENCE: 1

W-127 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

128 1 5 10 15

131 <210> SEQ ID NO: 2

132 <211> LENGTH: 9

133 <212> TYPE: PRT

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134 <213> ORGANISM: Artificial Sequence  
 136 <220> FEATURE:  
 137 <223> OTHER INFORMATION: fibrin binding polypeptides  
 139 <220> FEATURE:  
 140 <221> NAME/KEY: MISC\_FEATURE ✓  
 141 <222> LOCATION: (2)..(2)  
 142 <223> OTHER INFORMATION: X2 is Pro, Arg, Asn, Asp, Gln, Gly, Phe, Ser, Thr or Tyr  
 145 <220> FEATURE:  
 146 <221> NAME/KEY: MISC\_FEATURE  
 147 <222> LOCATION: (3)..(3) ✓  
 148 <223> OTHER INFORMATION: X3 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro,  
 Ser,  
 149 Thr, Trp, Tyr, or Val  
 152 <220> FEATURE:  
 153 <221> NAME/KEY: MISC\_FEATURE  
 154 <222> LOCATION: (4)..(4)  
 155 <223> OTHER INFORMATION: X4 is Glu, Gly, Lys, Ser, or Tyr  
 158 <220> FEATURE:  
 159 <221> NAME/KEY: MISC\_FEATURE  
 160 <222> LOCATION: (5)..(5)  
 161 <223> OTHER INFORMATION: X5 is Pro, Asp, Glu, Asn, Gln, Glu, Gly, Leu, Lys, Ser, Thr,  
 or T  
 162 yr  
 165 <220> FEATURE:  
 166 <221> NAME/KEY: MISC\_FEATURE  
 167 <222> LOCATION: (6)..(6)  
 168 <223> OTHER INFORMATION: X6 is Arg, Gly, or Trp  
 171 <220> FEATURE:  
 172 <221> NAME/KEY: MISC\_FEATURE  
 173 <222> LOCATION: (7)..(7)  
 174 <223> OTHER INFORMATION: X7 is Leu, Ile, Lys, Met, Asn, Gln, Pro, Ser, Thr, or Val  
 177 <220> FEATURE:  
 178 <221> NAME/KEY: MISC\_FEATURE  
 179 <222> LOCATION: (8)..(8)  
 180 <223> OTHER INFORMATION: X8 is Ile, Leu, Phe, Trp, or Tyr  
 183 <400> SEQUENCE: 2 ✓  
 wfk 185 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
 186 1 5  
 189 <210> SEQ ID NO: 3  
 190 <211> LENGTH: 15  
 191 <212> TYPE: PRT  
 192 <213> ORGANISM: Artificial Sequence  
 194 <220> FEATURE:  
 195 <223> OTHER INFORMATION: fibrin binding polypeptide  
 197 <400> SEQUENCE: 3  
 199 Trp Glu Leu Cys Ser Asp Glu Asn Trp Leu Trp Cys Trp Pro His  
 200 1 5 10 15  
 203 <210> SEQ ID NO: 4  
 204 <211> LENGTH: 15  
 205 <212> TYPE: PRT  
 206 <213> ORGANISM: Artificial Sequence

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208 <220> FEATURE:
209 <223> OTHER INFORMATION: fibrin binding polypeptide
211 <400> SEQUENCE: 4
213 Trp Met Met Cys Pro Met Ser Glu Trp Leu Tyr Cys Trp Ser Ala
214 1          5          10          15
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 15
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: fibrin binding polypeptide
225 <400> SEQUENCE: 5
227 Trp Gln Pro Cys Pro Trp Glu Ser Trp Thr Phe Cys Trp Asp Pro
228 1          5          10          15
231 <210> SEQ ID NO: 6
232 <211> LENGTH: 15
233 <212> TYPE: PRT
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: fibrin binding polypeptide
239 <400> SEQUENCE: 6
241 Trp Ala Pro Cys Gln Glu Glu Pro Trp Leu Phe Cys Phe His Gly
242 1          5          10          15
245 <210> SEQ ID NO: 7
246 <211> LENGTH: 15
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: fibrin binding polypeptide
253 <400> SEQUENCE: 7
255 Trp Lys Ala Cys Pro Gly Glu Asp Trp Leu Phe Cys Trp Gly Ser
256 1          5          10          15
259 <210> SEQ ID NO: 8
260 <211> LENGTH: 13
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: fibrin binding polypeptide
267 <400> SEQUENCE: 8
269 Arg Ala Pro Cys Asp Tyr Tyr Gly Thr Cys Val Glu Leu
270 1          5          10
273 <210> SEQ ID NO: 9
274 <211> LENGTH: 13
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: template of display peptide for phage display library
281 <220> FEATURE:
282 <221> NAME/KEY: MISC_FEATURE

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Input Set : A:\DYX-024.1.ST25.txt  
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283 <222> LOCATION: (1)..(3)  
284 <223> OTHER INFORMATION: Xaa1, Xaa2, Xaa3 are independently variable and  
285 may be any amino acid except cysteine  
288 <220> FEATURE:  
289 <221> NAME/KEY: MISC\_FEATURE  
290 <222> LOCATION: (5)..(9)  
291 <223> OTHER INFORMATION: Xaa5, Xaa6, Xaa7, Xaa8, Xaa9 are independently  
292 variable and may be any amino acid except cysteine  
295 <220> FEATURE:  
296 <221> NAME/KEY: MISC\_FEATURE  
297 <222> LOCATION: (11)..(13)  
298 <223> OTHER INFORMATION: Xaa11, Xaa12, Xaa13 are independently variable and  
299 may be any amino acid except cysteine  
302 <400> SEQUENCE: 9  
304 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
305 1 5 10  
308 <210> SEQ ID NO: 10  
309 <211> LENGTH: 14  
310 <212> TYPE: PRT  
311 <213> ORGANISM: Artificial Sequence  
313 <220> FEATURE:  
314 <223> OTHER INFORMATION: template of display peptide for phage display library  
316 <220> FEATURE:  
317 <221> NAME/KEY: MISC\_FEATURE  
318 <222> LOCATION: (1)..(3)  
319 <223> OTHER INFORMATION: Xaa1, Xaa2, Xaa3 are independently variable and  
320 may be any amino acid except cysteine  
323 <220> FEATURE:  
324 <221> NAME/KEY: MISC\_FEATURE  
325 <222> LOCATION: (5)..(10)  
326 <223> OTHER INFORMATION: Xaa5, Xaa6, Xaa7, Xaa8, Xaa9, Xaa10 are  
327 independently variable and may be any amino acid  
328 except cysteine  
331 <220> FEATURE:  
332 <221> NAME/KEY: MISC\_FEATURE  
333 <222> LOCATION: (12)..(14)  
334 <223> OTHER INFORMATION: Xaa12, Xaa13, Xaa14 are independently variable and  
335 may be any amino acid except cysteine  
338 <400> SEQUENCE: 10  
340 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
341 1 5 10  
344 <210> SEQ ID NO: 11  
345 <211> LENGTH: 15  
346 <212> TYPE: PRT  
347 <213> ORGANISM: Artificial Sequence  
349 <220> FEATURE:  
350 <223> OTHER INFORMATION: template for display peptide of a phage display library  
352 <220> FEATURE:  
353 <221> NAME/KEY: MISC\_FEATURE

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/034,974

DATE: 01/17/2002

TIME: 15:52:48

Input Set : A:\DYX-024.1.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:1093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42